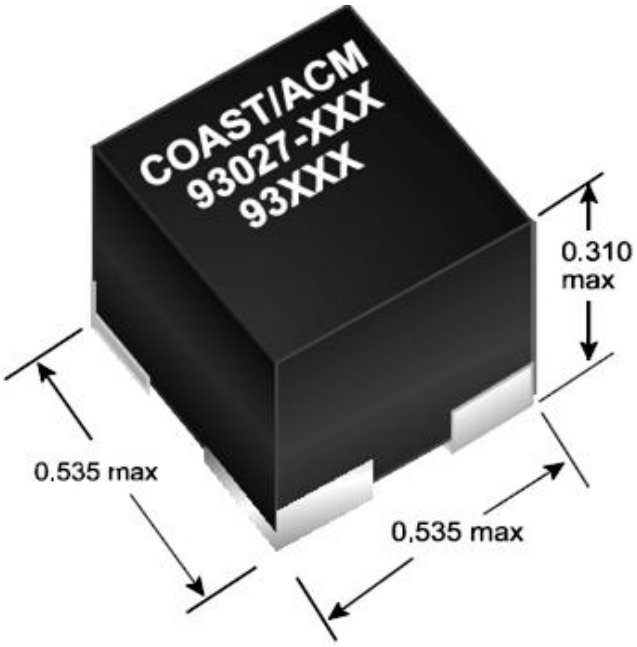
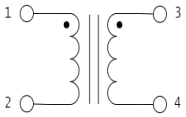
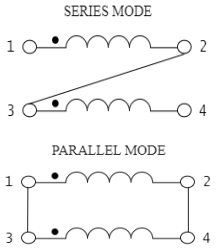
Power Inductors – 93000D Series





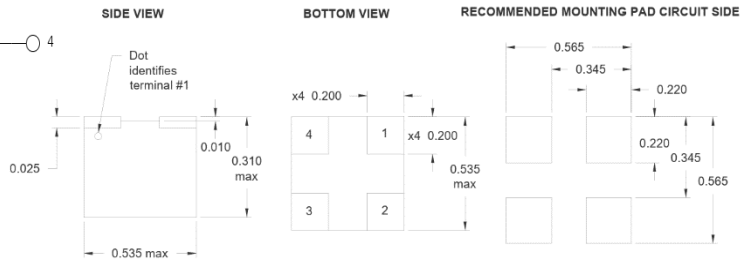
BACK-SIDE VIEW





IN	MM
0.565	14.35
0.535	13.59
0.345	8.76
0.310	7.87
0.220	5.59
0.200	5.08
0.025	0.64
0.010	0.25

MIL-PRF-27



SPECIFICATIONS

- **Inductance:** 0.1 mH to 10 mH (Series)
  0.025 mH to 2.5 mH (Parallel)
- **Standard Tolerance:** ±10%
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- Inductance measured at 0.1 Vrms, 10 kHz, 0 DC current
- **Standard Termination Finish:** Tin-lead
- **Weight:** 35.4 gram, maximum
- **Dielectric Withstanding Voltage:** Method 301 of MIL-STD-202, test voltage 200 Vrms
- **Glass Transition Temperature (T_g):** 165°C
- **Coefficient of Thermal Expansion (CTE):**
  Before T_g 18 ppm/°C
  After T_g 54 ppm/°C

FEATURES

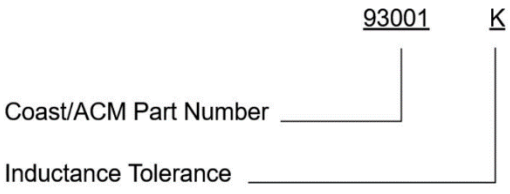
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity (Small): 125 pieces
  Full Reel Quantity (Large): 300 pieces
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package type
- Available for Space Application per MIL-STD-981 (see S93000D Series)

APPLICATIONS

Designed to meet the requirements of MIL-PRF-27 ensuring optimal performance in military-grade applications.

This specification pertains to molded, shielded electrical connectors and accessories, emphasizing reliability and robustness. Ideal for aerospace and defense applications, these inductors offer both durability and precision.

PART IDENTIFYING NUMBER



K: Inductance Tolerance
M: ±20% K: ±10% J: ±5%

Power Inductors – 93000C Series

Dash Number	C/ACM P/N	Series			Parallel			Power Rating (mW)
		Inductance (mH) ±10 percent	Rated DC Current (mA)	DC Resistance Max (Ω)	Inductance (mH) ±10 percent	Rated DC Current (mA)	DC Resistance Max (Ω)	
93027-004	93004	0.100	1350	0.21	0.025	2700	0.053	450
93027-008	93008	0.250	930	0.41	0.062	1860	0.103	450
93027-012	93012	0.500	660	0.82	0.125	1320	0.205	450
93027-016	93016	0.750	540	1.25	0.187	1080	0.313	450
93027-020	93020	1.000	470	1.87	0.250	940	0.468	450
93027-024	93024	2.000	330	3.62	0.500	660	0.910	450
93027-028	93028	3.000	270	5.50	0.750	540	1.380	450
93027-032	93032	5.000	210	9.12	1.250	420	2.280	450
93027-036	93036	7.500	170	13.75	1.875	340	3.440	450
93027-040	93040	10.000	140	18.25	2.500	280	4.570	450